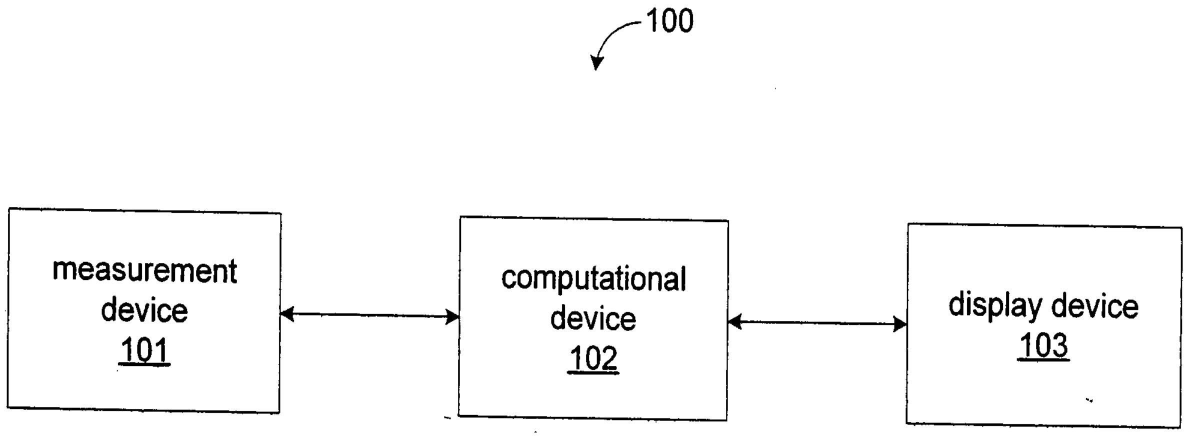
100
measurement device 101
computational device 102
display device 103

Fig. 1

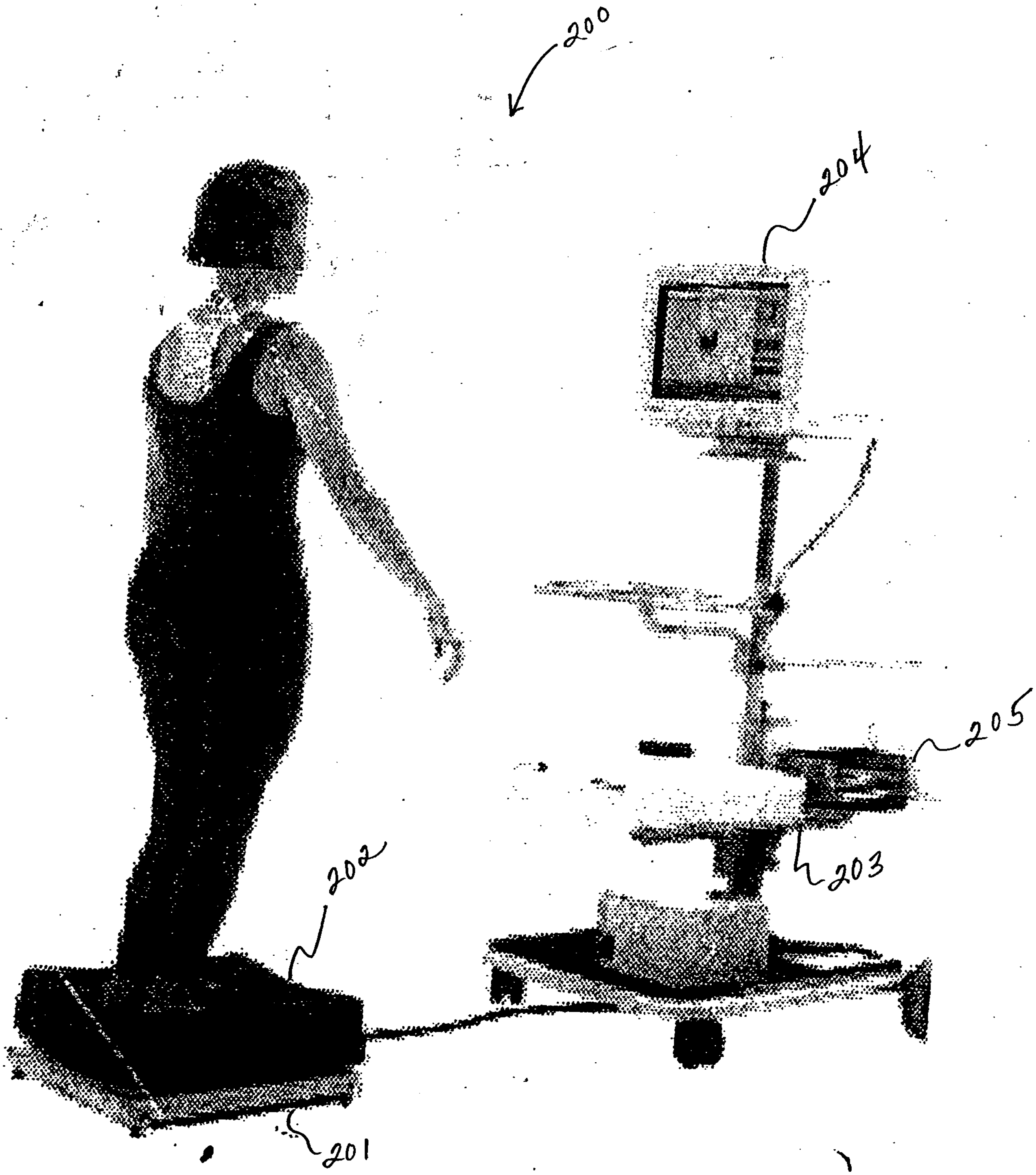

Fig. 2

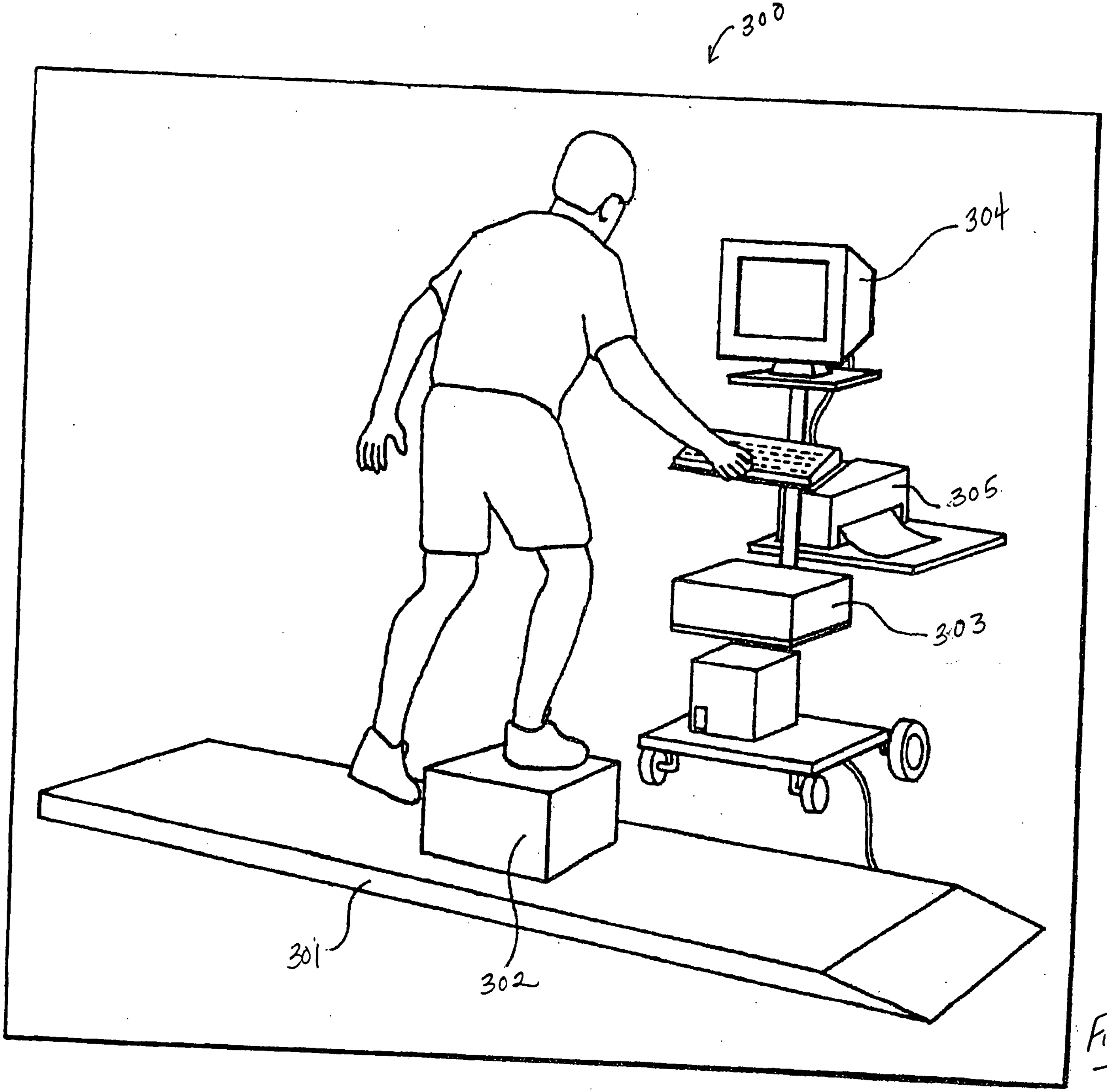

Fig. 3

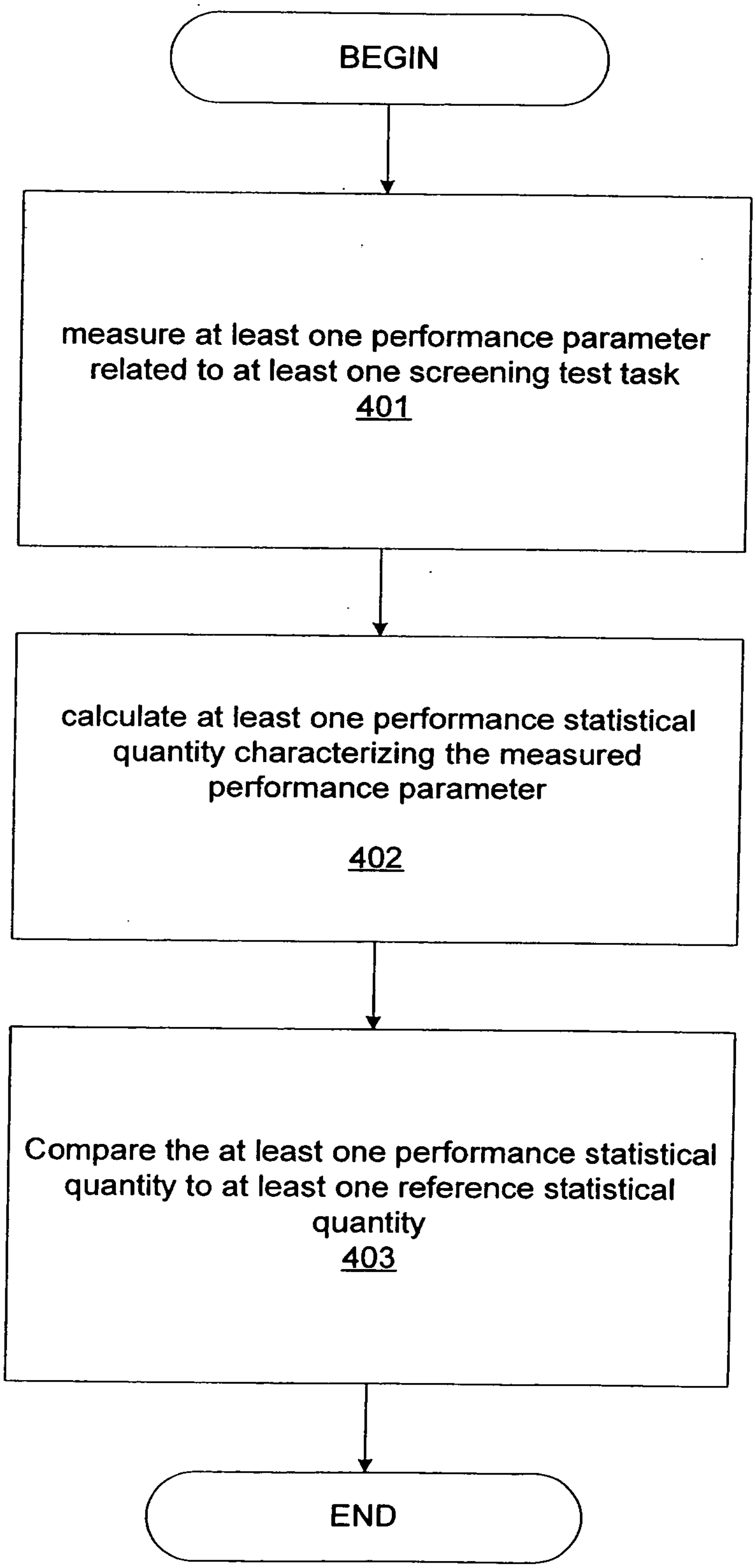
BEGIN
measure at least one performance parameter related to at least one screening test task
401
calculate at least one performance statistical quantity characterizing the measured performance parameter
402
Compare the at least one performance statistical quantity to at least one reference statistical quantity
403
END

Fig. 4

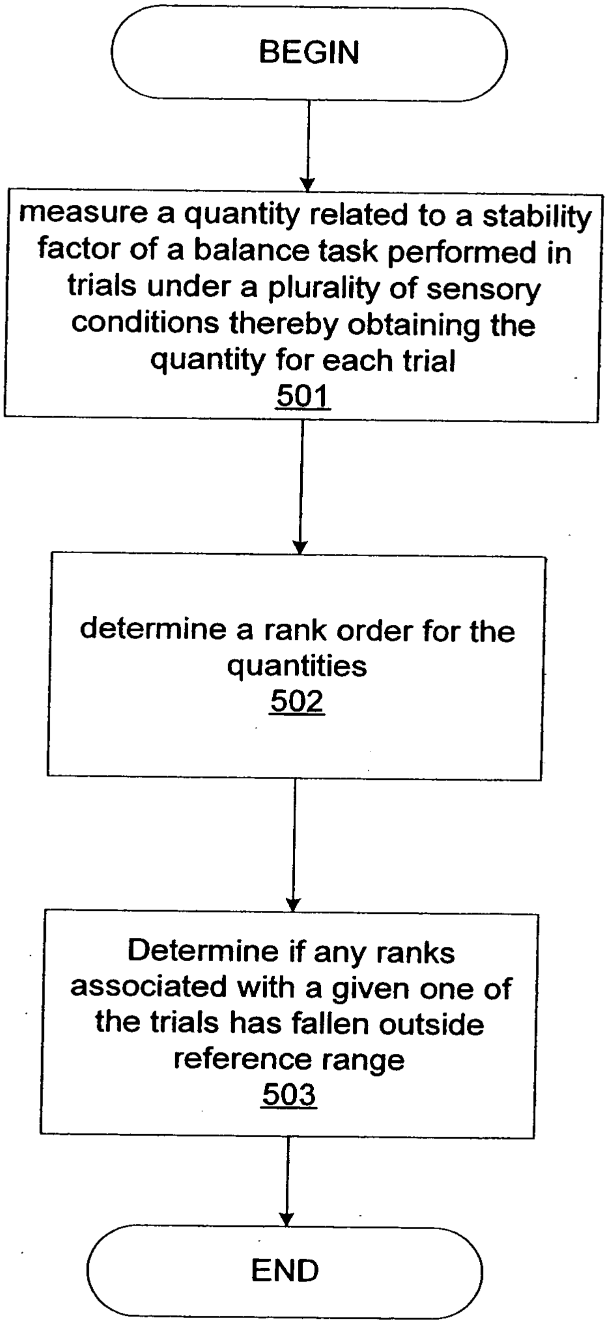
BEGIN
measure a quantity related to a stability factor of a balance task performed in trials under a plurality of sensory conditions thereby obtaining the quantity for each trial
501
determine a rank order for the quantities
502
Determine if any ranks associated with a given one of the trials has fallen outside reference range
503
END

Fig. 5

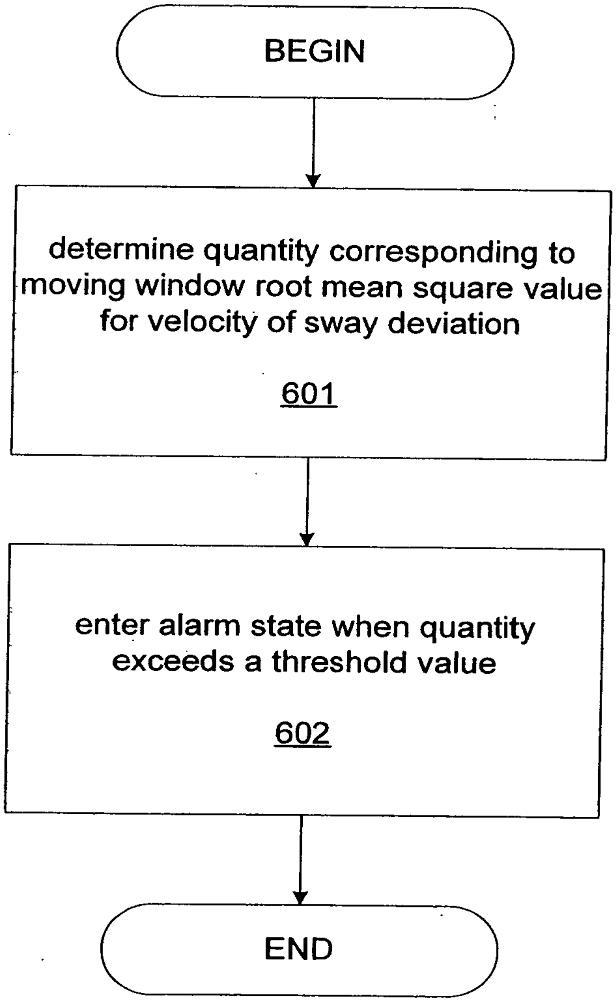
BEGIN
determine quantity corresponding to moving window root mean square value for velocity of sway deviation
601
enter alarm state when quantity exceeds a threshold value
602
END

Fig. 6

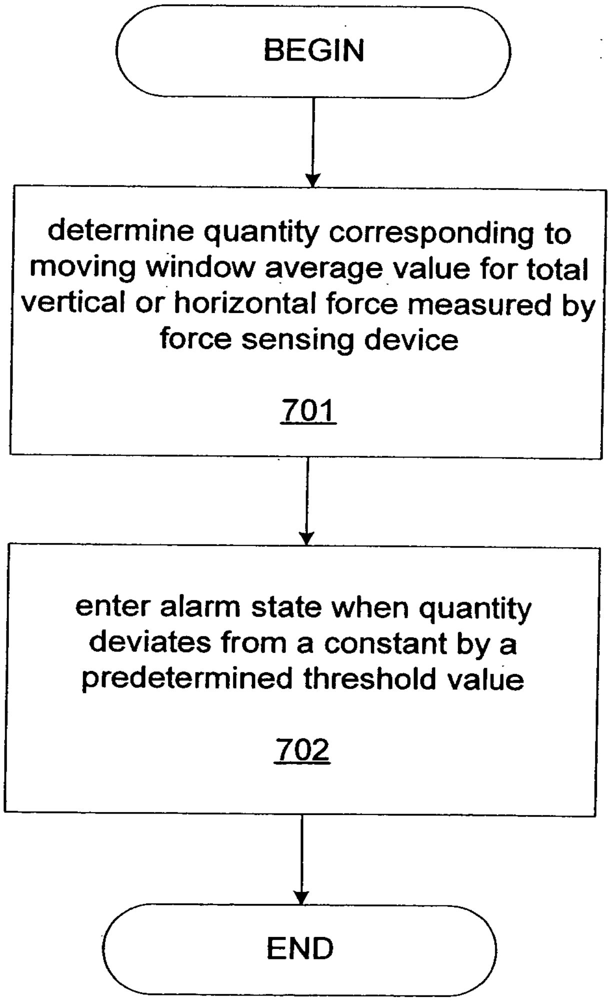
BEGIN
determine quantity corresponding to moving window average value for total vertical or horizontal force measured by force sensing device
701
enter alarm state when quantity deviates from a constant by a predetermined threshold value
702
END

Fig. 7

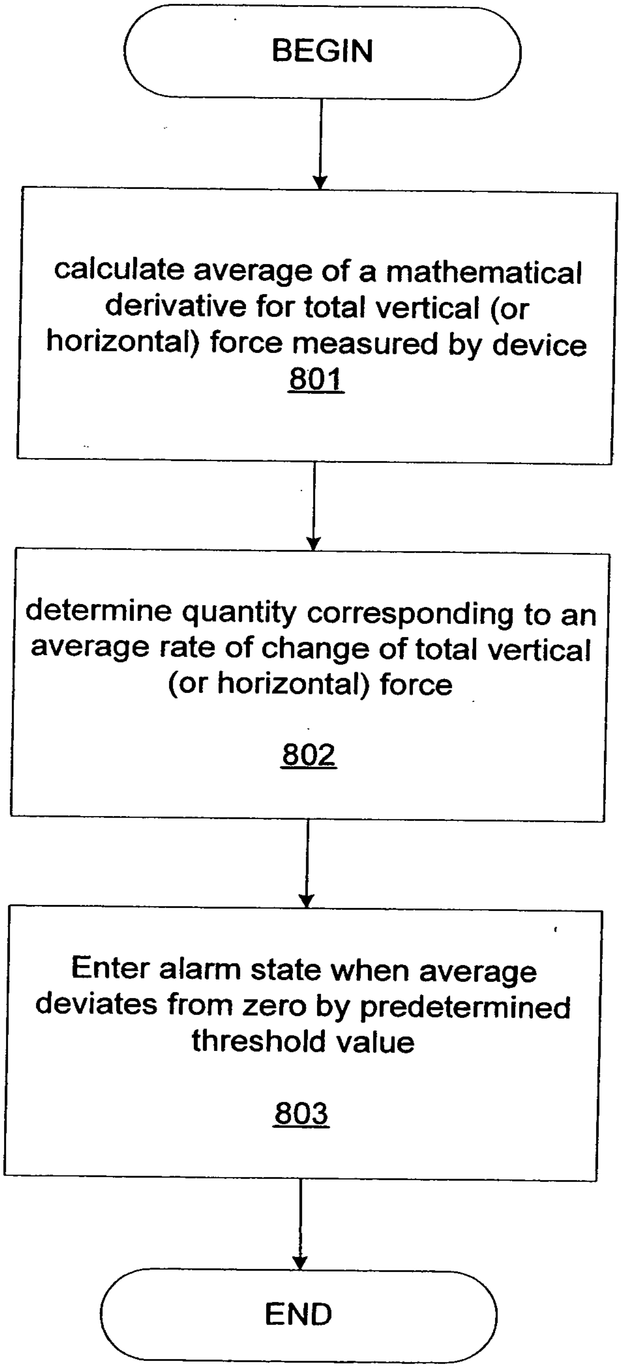
BEGIN
calculate average of a mathematical derivative for total vertical (or horizontal) force measured by device
801
determine quantity corresponding to an average rate of change of total vertical (or horizontal) force
802
Enter alarm state when average deviates from zero by predetermined threshold value
803
END

Fig. 8

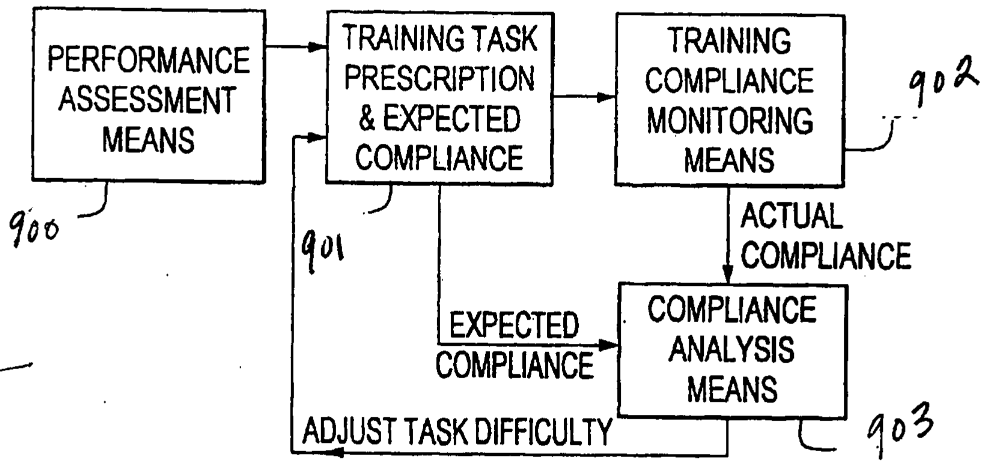
PERFORMANCE ASSESSMENT MEANS
TRAINING TASK PRESCRIPTION & EXPECTED COMPLIANCE
TRAINING COMPLIANCE MONITORING MEANS
ACTUAL COMPLIANCE
EXPECTED COMPLIANCE
COMPLIANCE ANALYSIS MEANS
ADJUST TASK DIFFICULTY
900
901
902
903

Fig. 9

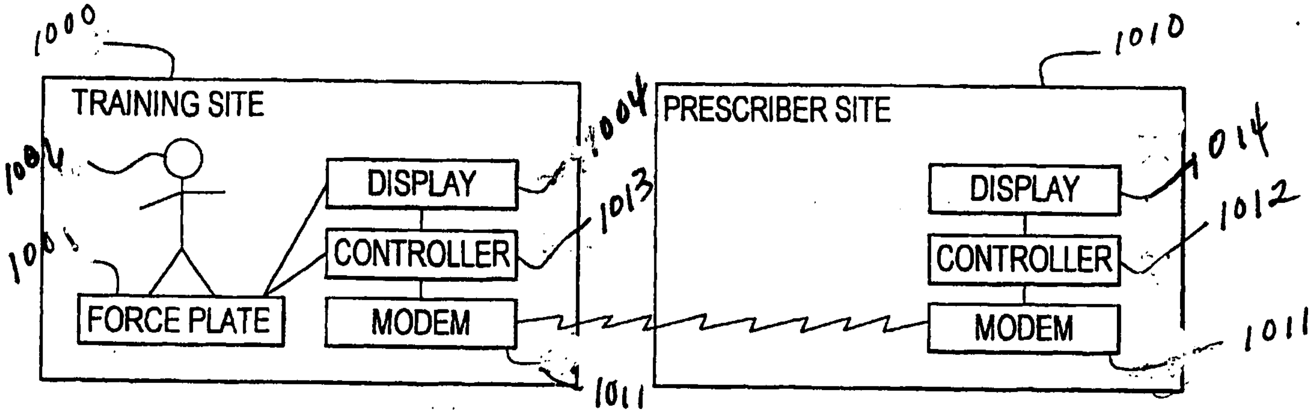
1000
TRAINING SITE
1002
1001
FORCE PLATE
DISPLAY
CONTROLLER
MODEM
1004
1013
1011
1010
PRESCRIBER SITE
DISPLAY
CONTROLLER
MODEM
1014
1012
1011

Fig. 10